

A Message from the Director of the National Science Foundation

In late May, I traveled to New Delhi, India, for the fifth Annual Meeting of the Global Research Council (GRC). The conference provided an opportunity to join the leaders of research agencies from nearly 50 countries to discuss policy issues and best practices for global collaboration. The enthusiasm and diligence displayed at the forum shows the commitment each country has toward improving the international science and engineering (S&E) enterprise.

Since its inception in 2012, the GRC has developed policy frameworks to guide national discussions on issues such as supporting the next generation of researchers, merit review, research integrity and open access to publications and data. This year, the GRC focused on collaboration among fields of scientific endeavor and the status of women in S&E research. Harnessing synergies



between disciplines and fostering diverse talent through inclusive environments are integral to scientific discovery and innovation. With global research and development investment nearing the \$2 trillion mark, and realizing our collective role in contributing solutions to the world's challenges, we as a research community should continue to encourage openness and international collaboration.

Dr. France A. Córdova

Director, National Science Foundation

In Abidon

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Where Discoveries Begin...

4-D laser printing: holograms and beyond

What started out as research on novel hologram technologies has led to a startup company that produces a range of technologies, from ultra-efficient pocket projectors to optical devices that improve the speed of



Internet traffic.

Soldier scientists invent lighter bulletproof vests, advanced wound dressings



Harvard University researchers (including a U.S. Army reservist) are engineering nanofibers for multiple military applications. They "whip up" the ultrathin strands using a technique similar to that used for making cotton candy.



Kilauea: up close and personal with red-hot science!

A 20-year study of Kilauea, one of the longest currently active volcanoes, provides new insights into what's triggering lava flows and when they might stop.

What's Next?

New robotics special report at NSF.gov/robotics to mark the five-year anniversary of the National Robotics Initiative.

The Vizzies, a national competition to broaden the scope of visual and conceptual images of science and engineering, will be opening for submissions in June. Visit, nsf.gov/vizzies, for more information.

NSF funds millions of dollars in making-related research each year across fields from engineering to computer science to STEM education.



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